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QC ABSTRACT

AME OF WORK: Construction of School Building at Singapura in Ward No. 11

SO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
	PCC(M15)	Compressive Strength(7days and 28days)	3 Set	–	6	6
	PCC(M15)	Compressive Strength(7days and 28days)	3 Set	–	6	6
	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-11-24-16** **Date: 23-07-22**
Project Name	:	Construction of School Building at Singapura in Ward No. 11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders). #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21
Date of Receipt	:	20-07-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-07-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-11-24-16** **Date: 18-08-22**
Project Name	:	Construction of School Building at Singapura in Ward No. 11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21
Date of Receipt	:	20-07-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	21-07-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-11-24-16** **Date: 22-07-22**
Project Name	:	Construction of School Building at Singapura in Ward No. 11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
Customer Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21
Date of Receipt	:	20-07-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-07-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-11-24-16 Date: 22-07-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	-
4	Bulk Density(Loose) (Kg/l)	1.53	-
5	Bulk Density(Compacted) (Kg/l)	1.55	-
6	Water Absorption(%)	0.22	-
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

AE

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-11-24-16**	**Date: 22-07-22**
Project Name	:	Construction of School Building at Singapura in Ward No. 11	
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097	
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21	
Date of Receipt	:	20-07-22	
Sample Type	:	Fine Aggregate	
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption	
Date of test	:	20-07-22	
Total weight taken	:	1000 grams	

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	44	76	7.6	92.4	60-95	75-100	85-100	95-100
4	1.18 mm	215	291	29.1	70.9	30-70	55-90	75-100	90-100
5	600 micron	245	536	53.6	46.4	15-34	35-59	60-79	80-100
6	300 micron	201	737	73.7	26.3	5-20	8-30	12-40	15-50
7	150 micron	178	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

esult :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-11-24-16

Date: 22-07-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	-
2	Specific Gravity	2.53	-
3	Material finer than 75 micron(%)	8.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

s ID	:	CP-2022-11-24-16
ject Name	:	Construction of School Building at Singapura in Ward No. 11
ncy	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
tomer's Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21
of Receipt	:	16-08-22
tomer ID	:	Flooring Concrete- GF Classroom 1
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	21/08/2022

Date: 22/08/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Flooring Concrete-GF Classroom 1	M15	14/08/2022	21/08/2022	150.61 X 151.89 X 151.47	22876	8.470	289.3	12.6	12.7
Flooring Concrete-GF Classroom 1	M15	14/08/2022	21/08/2022	150.87 X 149.91 X 150.57	22616	8.893	289.0	12.8	
Flooring Concrete-GF Classroom 1	M15	14/08/2022	21/08/2022	151.41 X 151.71 X 150.94	22971	8.442	288.5	12.6	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ple ID	:	CP-2022-11-24-16 **Date: 22/08/2022**
ject Name	:	Construction of School Building at Singapura in Ward No. 11
ress	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
tomer's Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21
e of Receipt	:	16-08-22
tomer ID	:	Flooring Concrete- GF Classroom 1
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	21/08/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Flooring Concrete-GF Classroom 1	M15	14/08/2022	21/08/2022	150.61 X 151.89 X 151.47	22876	8.470	289.3	12.6	12.7
Flooring Concrete-GF Classroom 1	M15	14/08/2022	21/08/2022	150.87 X 149.91 X 150.57	22616	8.893	289.0	12.8	
Flooring Concrete-GF Classroom 1	M15	14/08/2022	21/08/2022	151.41 X 151.71 X 150.94	22971	8.442	288.5	12.6	

results obtained are satisfactory as per standard requirements.

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Certificate No : TC-5848

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

h ID : CP-2022-11-24-16 **Date: 12/09/2022**

ject Name : Construction of School Building at Singapura in Ward No. 11

ency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

tomer's Reference : EE(Project)/Ynk./one/WO/85/2020-21

e of Receipt : 16-08-22

tomer ID : Flooring Concrete- GF Classroom 1

mple Type /Size : 150X150X150 mm

mple grade/Age : M15 / 28 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

e of test : 11/09/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Flooring Concrete- GF Classroom 1	M15	14/08/2022	11/09/2022	150.76 X 149.75 X 149.41	22577	8.793	394.4	17.5	17.3
Flooring Concrete- GF Classroom 1	M15	14/08/2022	11/09/2022	150.25 X 150.63 X 150.75	22632	8.138	390.3	17.2	
Flooring Concrete- GF Classroom 1	M15	14/08/2022	11/09/2022	151.71 X 150.68 X 149.48	22861	8.440	395.5	17.3	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/08/2022

b ID	:	**CP-2022-11-24-16**
oject Name	:	Construction of School Building at Singapura in Ward No. 11
ency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
stomer's Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21
e of Receipt	:	17-08-22
tomer ID	:	Flooring Concrete- GF Classroom 2
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
e of test	:	22/08/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Flooring Concrete- GF Classroom 2	M15	15/08/2022	22/08/2022	149.83 X 149.23 X 150.36	22359	8.969	280.2	12.5	12.7
Flooring Concrete- GF Classroom 2	M15	15/08/2022	22/08/2022	149.53 X 150.28 X 151.77	22471	8.258	290.9	12.9	
Flooring Concrete- GF Classroom 2	M15	15/08/2022	22/08/2022	150.34 X 149.74 X 149.45	22512	8.344	286.2	12.7	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-24-16** **Date: 12/09/2022**

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Date of Receipt : 17-08-22

Customer ID : Flooring Concrete- GF Classroom 2

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Flooring Concrete-GF Classroom 2	M15	15/08/2022	12/09/2022	149.71 X 149.23 X 151.87	22343	8.309	400.9	17.9	17.6
	Flooring Concrete-GF Classroom 2	M15	15/08/2022	12/09/2022	151.05 X 151.07 X 149.75	22818	8.513	400.2	17.5	
	Flooring Concrete-GF Classroom 2	M15	15/08/2022	12/09/2022	151.92 X 150.06 X 149.36	22797	8.739	392.0	17.2	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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R KARTHIK RECHAN
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Certificate No: TC-4648

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-11-24-16

Date: 23/08/2022

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Date of Receipt : 18-08-22

Customer ID : Flooring Concrete- GF Classroom 3

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
	Flooring Concrete- GF Classroom 3	M15	16/08/2022	23/08/2022	151.30 X 151.76 X 150.41	22962	8.488	283.6	12.4	12.5
	Flooring Concrete- GF Classroom 3	M15	16/08/2022	23/08/2022	149.32 X 150.33 X 149.40	22447	8.961	289.4	12.9	
	Flooring Concrete- GF Classroom 3	M15	16/08/2022	23/08/2022	149.18 X 151.48 X 150.22	22596	8.807	274.3	12.1	

Results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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Certificate No.: TC-3548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-24-16

Date: 13/09/2022

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk Zone/WO/85/2020-21

Date of Receipt : 18-08-22

Customer ID : Flooring Concrete- GF Classroom 3

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CL5

Date of test : 13/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
	Flooring Concrete- GF Classroom 3	M15	16/08/2022	13/09/2022	150.58 X 149.01 X 151.90	22437	8.263	402.3	17.9	17.6
	Flooring Concrete- GF Classroom 3	M15	16/08/2022	13/09/2022	150.37 X 149.75 X 150.41	22518	8.973	396.6	17.6	
	Flooring Concrete- GF Classroom 3	M15	16/08/2022	13/09/2022	149.28 X 151.97 X 151.92	22687	8.212	390.3	17.2	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-24-16** **Date: 27/08/2022**

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Date of Receipt : 22-08-22

Customer ID : Flooring Concrete- FF Classroom 1

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete-FF Classroom 1	M15	20/08/2022	27/08/2022	149.42 X 150.29 X 149.46	22456	8.638	287.8	12.8	12.4
2	Flooring Concrete-FF Classroom 1	M15	20/08/2022	27/08/2022	151.90 X 151.99 X 151.42	23087	8.249	280.4	12.1	
3	Flooring Concrete-FF Classroom 1	M15	20/08/2022	27/08/2022	149.32 X 151.85 X 151.63	22674	8.842	280.8	12.4	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-24-16 **Date: 17/09/2022**

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk Zone/WO/85/2020-21

Date of Receipt : 22-08-22

Customer ID : Flooring Concrete- FF Classroom 1

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Flooring Concrete-FF Classroom 1	M15	20/08/2022	17/09/2022	149.69 X 149.28 X 149.09	22345	8.168	387.9	17.4	17.4
2	Flooring Concrete-FF Classroom 1	M15	20/08/2022	17/09/2022	149.65 X 151.75 X 149.13	22710	8.436	390.2	17.2	
3	Flooring Concrete-FF Classroom 1	M15	20/08/2022	17/09/2022	151.90 X 149.51 X 150.06	22710	8.450	400.8	17.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-24-16

Date: 29/08/2022

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Date of Receipt : 23-08-22

Customer ID : Flooring Concrete- FF Classroom 2

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete-FF Classroom 2	M15	21/08/2022	28/08/2022	150.17 X 150.33 X 150.51	22575	8.855	273.3	12.1	12.3
2	Flooring Concrete-FF Classroom 2	M15	21/08/2022	28/08/2022	150.63 X 149.63 X 150.43	22539	8.867	272.6	12.1	
3	Flooring Concrete-FF Classroom 2	M15	21/08/2022	28/08/2022	149.15 X 151.96 X 149.13	22666	8.561	285.8	12.6	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-24-16 **Date: 19/09/2022**

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Date of Receipt : 23-08-22

Customer ID : Flooring Concrete- FF Classroom 2

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/09/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Flooring Concrete-FF Classroom 2	M15	21/08/2022	18/09/2022	150.31 X 150.88 X 150.90	22679	9.084	400.1	17.6	17.8
2	Flooring Concrete-FF Classroom 2	M15	21/08/2022	18/09/2022	150.90 X 149.71 X 151.08	22591	8.359	401.9	17.8	
3	Flooring Concrete-FF Classroom 2	M15	21/08/2022	18/09/2022	150.83 X 150.82 X 150.02	22749	8.906	405.5	17.8	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-11-24-16

Date: 29/08/2022

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders). #10. Gokul Nilaya. Dhanalakshmi Layout. Thindlu Main Road. Opp Indian Oil Petrol Bunk. Vidyaranyapura. Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Date of Receipt : 24-08-22

Customer ID : Flooring Concrete- FF Classroom 3

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/08/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete-FF Classroom 3	M15	22/08/2022	29/08/2022	150.02 X 150.92 X 151.13	22641	8.246	286.3	12.6	12.5
2	Flooring Concrete-FF Classroom 3	M15	22/08/2022	29/08/2022	150.77 X 151.20 X 151.36	22796	8.707	288.7	12.7	
3	Flooring Concrete-FF Classroom 3	M15	22/08/2022	29/08/2022	150.40 X 149.66 X 149.38	22508	9.060	274.6	12.2	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-24-16 **Date: 19/09/2022**

Project Name : Construction of School Building at Singapura in Ward No. 11

Owner : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project) Ynk.Zone/WO/85/2020-21

Date of Receipt : 24-08-22

Customer ID : Flooring Concrete- FF Classroom 3

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of Test : 19/09/2022

S No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Flooring Concrete-FF Classroom 3	M15	22/08/2022	19/09/2022	151.97 X 150.04 X 150.41	22801	9.061	405.2	17.8	17.6
2	Flooring Concrete-FF Classroom 3	M15	22/08/2022	19/09/2022	150.16 X 151.35 X 151.98	22728	8.144	403.1	17.7	
3	Flooring Concrete-FF Classroom 3	M15	22/08/2022	19/09/2022	149.85 X 150.29 X 151.65	22520	8.988	388.5	17.2	

*The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	CP-2022-11-24-16 **Date: 28-07-22**
Project Name	:	Construction of School Building at Singapura in Ward No. 11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21
Date of Receipt	:	25-07-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	25-07-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2022-11-24-16

Date: 28-07-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT FOR PLASTER SAND

Lab ID : CP-2022-11-24-16 Date: 29-07-22

Project Name : Construction of School Building at Singapura in Ward No. 11

Agency : Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097

Customer's Reference : EE(Project)/Ynk.Zone/WO/85/2020-21

Date of Receipt : 25-07-22

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (RA 2019) (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 25-07-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

Asst. Executive Engineer
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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-11-24-16

Date: 29-07-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2022-11-24-16 Date: 26-07-22
Project Name	:	Construction of School Building at Singapura in Ward No. 11
Agency	:	Sri. Kumar Raju (M/s Sri Vinayaka Builders), #10, Gokul Nilaya, Dhanalakshmi Layout, Thindlu Main Road, Opp Indian Oil Petrol Bunk, Vidyaranyapura, Bangalore-560 097
Customer's Reference	:	EE(Project)/Ynk.Zone/WO/85/2020-21
Date of Receipt	:	22-07-22
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	22-07-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10³	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	kg	Kg/m^3	Kg/m^3	
1	402	103	199	8240	16.956	2057.8	2010.8	Not less than 1360Kg/m^3
2	400	103	203	8364	17.335	2072.6		
3	399	100	200	7980	15.178	1902.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2022-11-24-16

DIMENSION ANALYSIS

Date: 26-07-22

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	100	202	
2	404	102	202	
3	400	102	199	
4	399	100	203	
5	400	100	200	
6	402	101	203	
7	403	101	203	
8	399	103	201	
9	400	102	201	
10	402	100	203	
11	404	100	201	
12	402	99	203	
13	401	100	203	
14	403	101	203	
15	402	102	203	
16	403	103	201	
17	400	102	201	
18	399	103	201	
19	399	102	202	
20	403	100	199	
Average of 20	401	101	202	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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Date: 26-07-22

COMPRESSIVE STRENGTH:

Sl No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length mm	Breadth mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	100	39884	190.8	4.8	4.6
2	404	102	41314	184.2	4.5	
3	400	102	40878	187.4	4.6	
4	399	100	39792	191.0	4.8	
5	400	100	39934	189.3	4.7	
6	402	101	40492	188.7	4.7	
7	403	101	40745	184.4	4.5	
8	399	103	41077	182.9	4.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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